THE LIFESCIENCES MAGAZINE

CHARISSE LITCHMAN

BeCareLink

Chief Medical Officer
& Co-Founder

MARKET RESEARCH REPORT

Revolutionizing Healthcare:
Exploring the Global Digital
Transformation Landscape

GLOBAL EVENTS

Global Events
in Neurology

A Maverick Making NEURØLOGICAL CARE More Accessible

THE MOST INSPIRING
HEALTHCARE
WOMEN LEADERS
To Follow In 2024

SUBSCRIBE

How about showcasing your products to
90,000+ C-suite Subscribers?
To get recent updates of our magazines

SUBSCRIBE US

THE LIFESCIENCES MAGAZINE

The Most Trusted ★★★★★
REGENERATIVE
MEDICINE COMPANIES

R3 Stem Cell

DAVID GREENE
CEO

MARKET RESEARCH REPORT
Global Medical Robots Market Poised for Robust Growth Through 2031

ARTICLE
Tissue Engineering and Regenerative Medicine

REDEFINING
REGENERATIVE
MEDICINE
EXCELLENCE

R3 Stem Cell

OUR PREVIOUS EDITIONS

The Lifesciences Magazine, 1985, Henderson Rd, Columbus, Ohio, 43220

Follow Us On:

For Editorial Concerns: editors@thelifesciencesmagazine.com
For Sales & Branding Enquiries: matthew@thelifesciencesmagazine.com
For Subscription: info@thelifesciencesmagazine.com

Publisher
The Lifesciences Magazine
Creative Content Editor
Shalmali W.
Marketing Coordinator (USA)
Matthew Eden
PR & Marketing Coordinator
Michael Stevens

Business Development Executive
Susan Wilson
Creative Designer
Paul Young
Social Media Manager
Amy Muller
Digital Circulation Manager
Amanda V.

This list is NOT a ranking. The companies on listed in magazine serve different aspects of the market, making ranking them in any order except revenue impossible and unfair. We try to bring a perfect platform for business organization to showcase their valued products/ services.

Copyrights © The Lifesciences Magazine All Rights Reserved. The images and content included in this magazine should not be copied, transferred or reproduced in any form or by any means, electronics, mechanical, photocopying, recording, otherwise, without proper permission from The Lifesciences Magazine. The Lifesciences Magazine solely owns all the reprint rights.

FROM EDITOR'S DESK

Welcome to the latest issue of The Lifesciences Magazine, where we celebrate the remarkable achievements and leadership of the most inspiring healthcare women leaders to follow in 2024. As we embark on a new year filled with promise and opportunity, we are thrilled to shine a spotlight on the extraordinary women who are driving innovation, shaping the future of healthcare, and inspiring change in the lifescience industry.

In this issue, we highlight the diverse talents, expertise, and accomplishments of women leaders who are making a significant impact across various sectors of the healthcare landscape. From pioneering research and groundbreaking discoveries to transformative leadership and advocacy for patient care, these women exemplify the spirit of resilience, determination, and excellence that defines the lifescience industry.

As we showcase the stories and achievements of these inspiring leaders, we invite you to join us in recognizing their invaluable contributions to advancing healthcare and improving lives around the world. Their vision, passion, and unwavering commitment to excellence serve as a source of inspiration for us all, inspiring us to break barriers, defy expectations, and create positive change in our own spheres of influence.

We extend our heartfelt congratulations to the most inspiring healthcare women leaders to follow in 2024. Your dedication, innovation, and leadership are shaping the future of healthcare and paving the way for a healthier, more equitable world. Thank you for your invaluable contributions, and we look forward to following your continued success and impact in the years to come.

Warm regards.

Shalmali

Shalmali W.

REDEFINING THE SCIENCE OF LIFE

The Lifesciences Magazine is global healthcare solutions platform that paves the way for various healthcare innovations, advices of professionals.

THE LIFESCIENCES MAGAZINE

LEADERS IN SPOTLIGHT

For the cover read about -

Neurologic assessments are complex and require years of training to obtain expertise in performing. Such evaluations are best performed by neurological experts. Unfortunately, over 40% of the 1 billion people living with a neurologic disorder have little to no access to necessary neurological care, underlining the pressing need to find a solution for this dire situation..

Several factors contribute to the lack of access to neurological care today—high treatment costs, high travel times, and notably, the shortall of neurologists which will rise to 19% by 2025.

If only one could remotely access neurological care, right? BeCareLink is an AI-enhanced neurological platform that helps you do precisely that—access neurological care from the comfort of your home. Built by doctors and scientists, BeCareLink aims to simplify and quantify neurological assessments. **Charisse Litchman, MD is the Chief Medical Officer and co-founder of BeCareLink** and this is her journey.

10. COVERSTORY

CHARISSE LITCHMAN

CONTENTS

24. ARTICLE

The Role of Telemedicine in Stroke Care: Improving Time-sensitive Treatments

28. MARKET RESEARCH REPORT

Revolutionizing Healthcare: Exploring the Global Digital Transformation Landscape

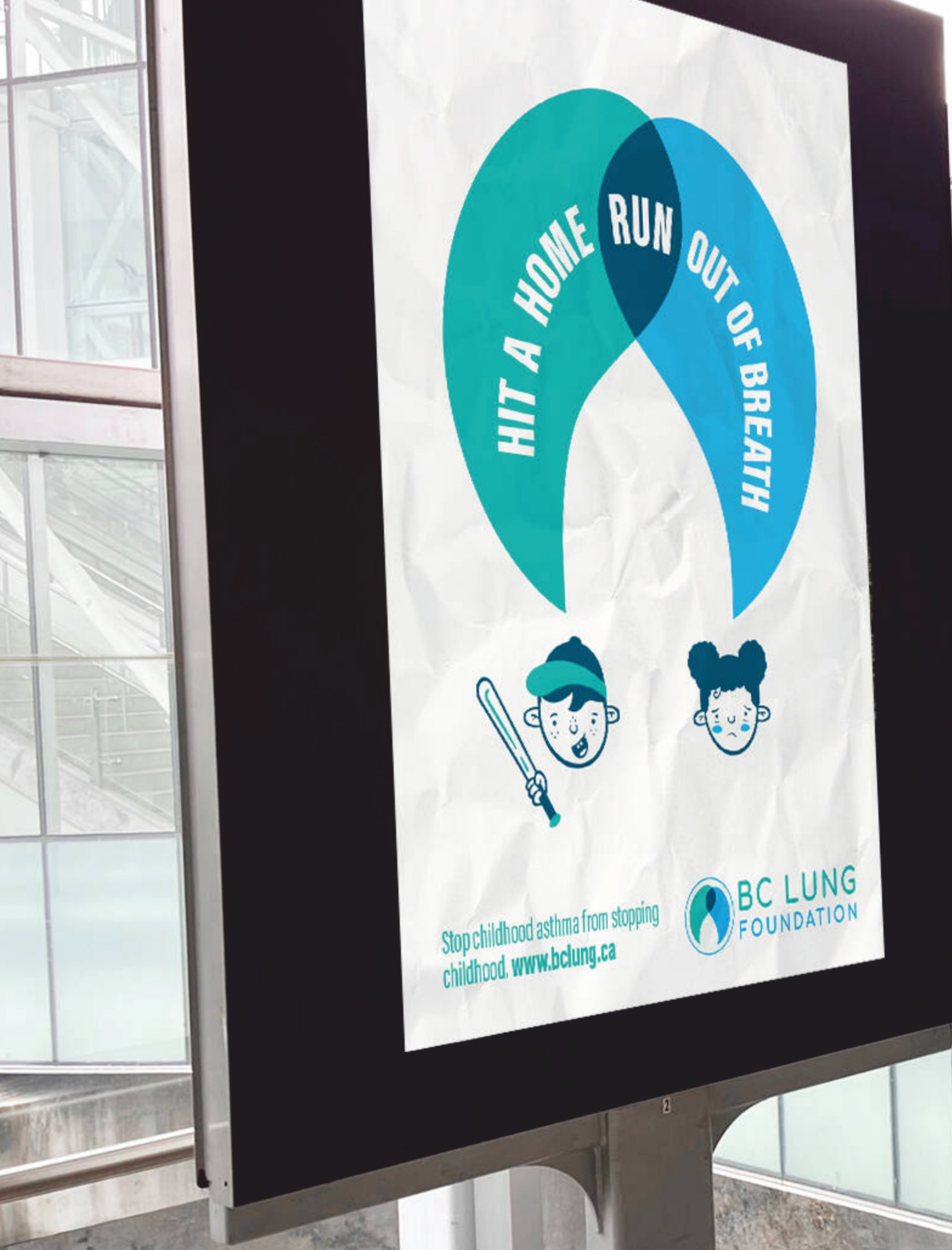
34. ARTICLE

Breaking Down Barriers: How Tele Neurology Enhances Accessibility to Neurological Care

40. GLOBAL EVENTS

Global Events in Neurology

44. NEWS OF THE WEEK


HIT A HOME
RUN
OUT OF BREATH
BC LUNG
FOUNDATION

Stop childhood asthma from stopping childhood. **www.bclung.ca**

“We were validated in the need for our vision as the pandemic struck, leaving patients with even poorer access to neurologic care.”- ***Charisse Litchman.***

Charisse Litchman

Chief Medical Officer & Co-Founder

BeCareLink

BeCareLink

CHARISSE LITCHMAN

A Maverick Making Neurological Care More Accessible

Neurologic assessments are complex and require years of training to obtain expertise in performing. Such evaluations are best performed by neurological experts. Unfortunately, over 40% of the 1 billion people living with a neurologic disorder have little to no access to necessary neurological care, underlining the pressing need to find a solution for this dire situation..

Several factors contribute to the lack of access to neurological care today—high treatment costs, high travel times, and notably, the shortall of neurologists which will rise to 19% by 2025.

If only one could remotely access neurological care, right? BeCareLink is an AI-enhanced neurological platform that helps you do precisely that—access neurological care from the comfort of your home. Built by doctors and scientists, BeCareLink aims to simplify and quantify neurological assessments. **Charisse Litchman, MD** is the **Chief Medical Officer** and **co-founder of BeCareLink** and this is her journey.

Setting the Gold Standard

As the Chief Medical Officer and neurologist at BeCareLink, Charisse guides its inspired teams to create mobile app activities beneficial to the patients and clinicians, mirroring the evaluation of chronic neurological disorders performed by neurologists in the clinic. Charisse's goal is to set a high standard by cultivating activities for its app that result in patient empowerment and better patient outcomes.

Charisse is responsible for ensuring the app delivers accurate information through well-run clinical trials, drawing on her diverse background in arenas with 30 years of experience in clinical neurology, conducting and monitoring research, and creating asynchronous neurologic telehealth services.

A Hallmark Leadership

Accurately assessing the strengths and weaknesses of team members is a quality of a hallmark leader. As an effective leader, it is vital to assign tasks and roles that lead to success and nurturing a greater sense of team appreciation within the organization.

With the valuable contribution of its teams, BeCareLink has developed a novel, exciting, and game-changer product in the digital space to solve a global problem. The purpose is to support members of the team, and cultivate motivation and fresh ideas for future endeavors. In addition, the meeting structure at BeCareLink is unique where the entire programming brainstorms collectively to iron out creative or technical difficulties and then breaks into small groups to hasten progress.

Journey until Now

After training at Yale and Cornell, Charisse started a private practice in general neurology and subspecialized in headache medicine. Later, she was recruited to the neurology faculty at Yale School of Medicine where she treated patients from a wide range of socioeconomic backgrounds and collaborated with some of the greatest neurologic minds to address a wide range of neurologic disorders.

Simultaneously, while helping these patients, Charisse built a novel headache telemedicine service from scratch that would help an even greater number of patients. Her objective with this service was to put quality above all and create a product that would teach non-neurologists in telemedicine care to make accurate diagnoses.

Charisse also worked for two CROs (Contract Research Organizations) in monitoring trials on novel neurological therapies and diagnostic tools. Later, this experience helped her conduct quality trials—a skill that serves her well even today as a Chief Medical Officer at BeCareLink.

Soon after working with CROS, Charisse confronted a rare disorder and co-founded a research foundation to dive deeper into the subject. Soon, she wrote the first textbook ever written on the said disease. To advance the research further, she collaborated with physicians,researchers, and a number of remarkably empowered patients.

Her journey with BeCareLink started in 2016 as a Co-founder. Since the company was formed, it has focused on perfecting its product for several years before it executed its expansion to more than one app. It put monetizing on hold until the product quality reached the highest standard possible to advance the field of medicine.

"We were validated in the need for our vision as the pandemic struck, leaving patients with even poorer access to neurologic care."- Charisse Litchman.

B
Delivering neur

Care

ologic care to those who need it

Career Highlighting Accolades

Charisse considers her ability to better people's lives as the achievement she is most proud of. From freeing migraine sufferers from headaches to helping people with terminal diagnoses grasp their reality, Charisse always derived great satisfaction from helping to improve people's quality of life.

At BeCareLink, with a belief that doctors are most effective when they place a premium on teaching, Charisse always takes time out of her busy schedule to attend weekly meetings with the programming team to help them understand and come up with effective assessment solutions for neurological disorders.

A blend of Neurology and AI

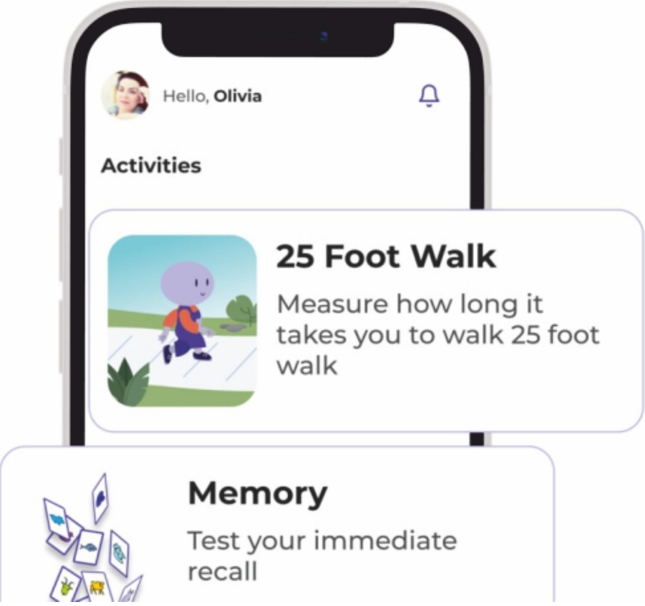
Charisse co-founded BeCareLink with the CEO Larry Rubin—an AI specialist, inventor of novel neural network techniques, and entrepreneur, after she lost her sister Dr. Beth Deutch to a delayed diagnosis and poor monitoring at a premier institution. The incident highlighted the failure of the greater healthcare system.

Following the incident, Charisse and Larry vowed to make a positive difference in the healthcare industry so others don't face these roadblocks. By blending the expertise of neurology and AI, they focused their efforts on improving neurologic assessments and making them more accessible.

Unfazed by the Challenges

Charisse and her two siblings were raised by parents who were first-generation Americans. Taking inspiration from her two incredibly brilliant and successful older siblings, Charisse never considered the possibility that she couldn't achieve whatever she set out to do.

We need to hone our ability to assess and treat patients remotely during the future pandemics that will inevitably come. And that will require proven, remote diagnostic and monitoring tools like BeCareLink."


Hello, Olivia

Activities

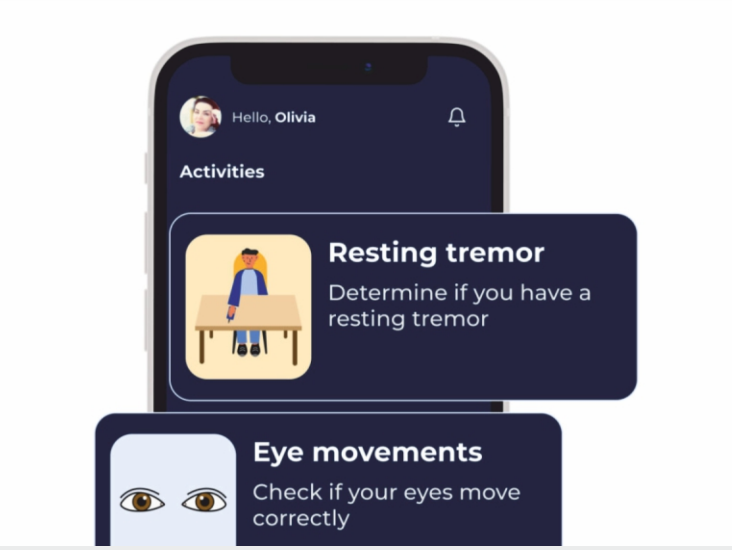
25 Foot Walk

Measure how long it takes you to walk 25 foot walk

Memory

Test your immediate recall

BeCare MS


Hello, Olivia

Activities

Resting tremor

Determine if you have a resting tremor

Eye movements

Check if your eyes move correctly

BeCare Neuro

"I certainly encountered unfathomable misogyny during my training, but it never deterred me."

Highlighting the discrimination she faced, Charisse emphasizes that there is no place for misogyny or other types of discrimination in the health industry or society at large. She concludes that she has high hopes that her generation will empower the upcoming generations to make further inroads into breaking down barriers..

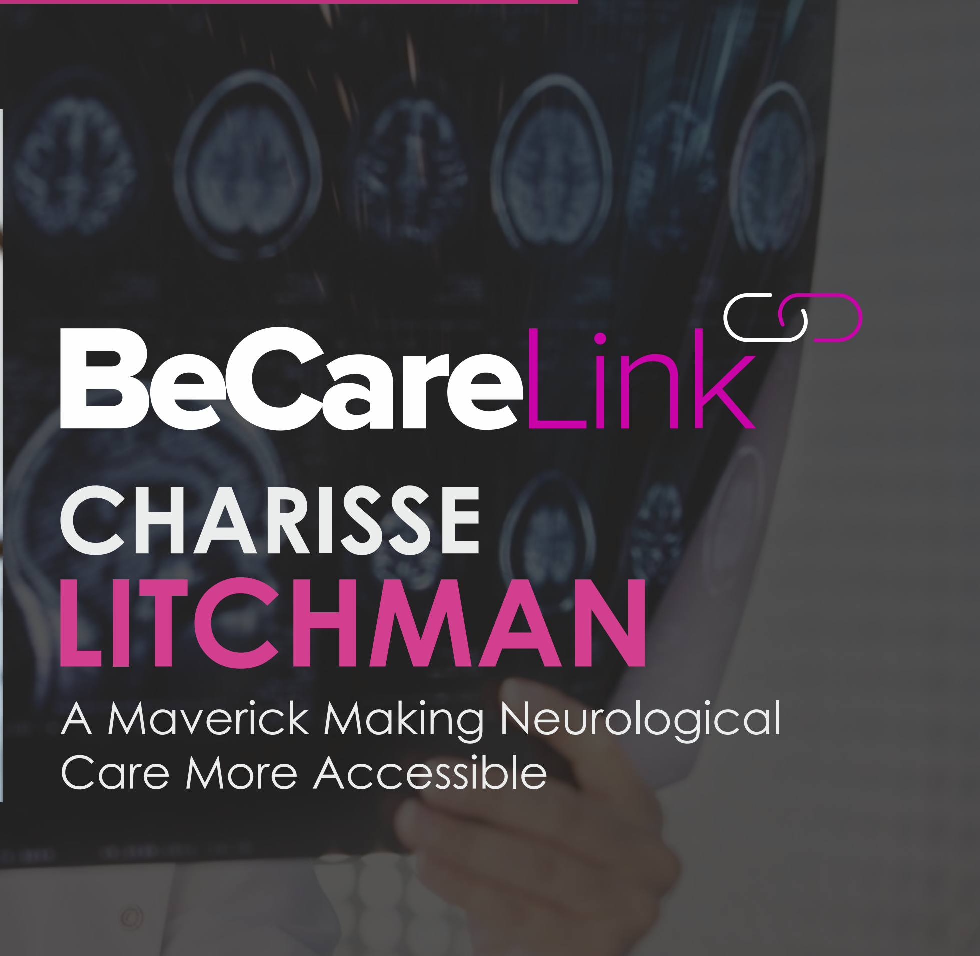
Despite the challenges, Charisse continued with her practice. Later, she married her husband - they will be celebrating 35 years later this year. Her husband has always been a great supporter of her endeavors. Together, they raised three children who are not only talented but also genuinely stellar individuals.

Choosing the Right People

Charisse believes that everyone can succeed when they feel they are heard. While Larry and she continue to run the show at BeCareLink, both acknowledge that they wouldn't be able to accomplish had they not surrounded themselves with creative and motivated individuals. Teamwork is highly valued at BeCareLink. For instance, Charisse can describe what and how to measure neurologic function, but admitting that she needs help even scheduling a Zoom meeting, she must rely on the expertise and strengths of others. According to Charisse, the most important step to success is surrounding yourself with good people and listening to them.

How to create better and Safer Healthcare Approaches?

- We must utilize AI more often in a positive way to advance the use of new therapies
- Creating digital health solutions such as BeCareLink to facilitate remote and quantified neurologic assessments for better outcomes, early detection, improved monitoring for disease progression, and identification of neurologic adverse events of our growing therapeutic armamentarium for all diseases.
- Working on healthcare delivery at a broader level will be vital.



BeCareLink

CHARISSE LITCHMAN

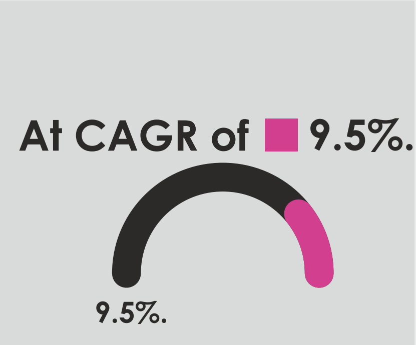
A Maverick Making Neurological Care More Accessible

Neurological Industry:

Market Size and Growth

The global neuroscience market is expected to reach a value of $174.4 billion by 2026, with a CAGR of 9.5%.

Factors: Increasing prevalence of neurological disorders, rising healthcare expenditure, and technological advancements.

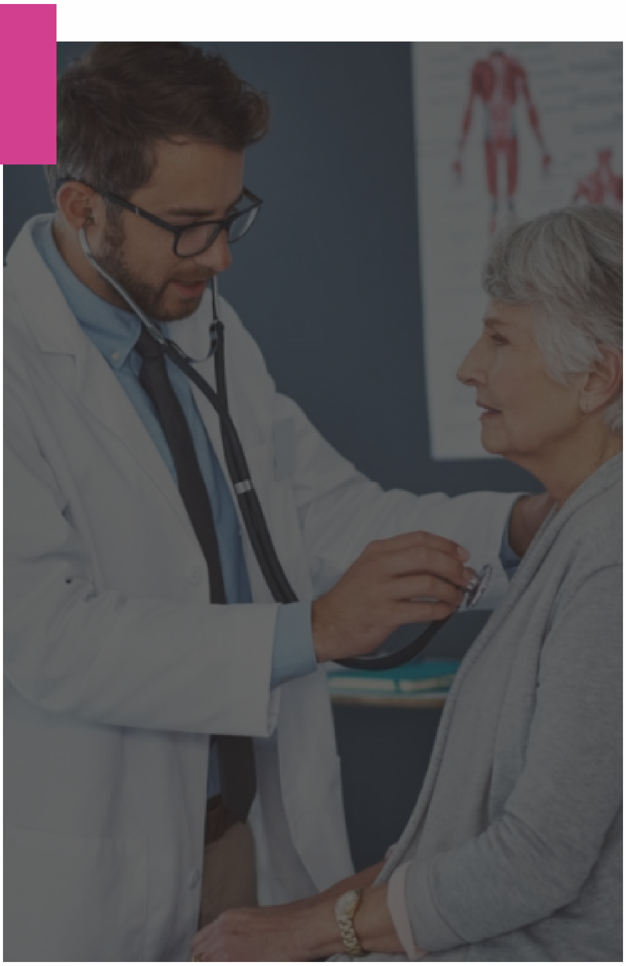


The neuroscience diagnostics market is expected to reach $11.1 billion by 2026.

Factors: Growing demand for advanced imaging technologies such as MRI and fMRI.

The global neuroscience market is expected to reach a value of $174.4 billion by 2026, with a CAGR of 9.5%.

Factors: Increasing prevalence of neurological disorders, rising healthcare expenditure, and technological advancements.



Its newest App, BeCare Neuro Link, is modeled on the traditional neurologic exam and can screen for any number of chronic neurologic disorders, such as Multiple Sclerosis (MS), Alzheimer's disease, and Parkinson's Disease. It utilizes AI analysis of the data collected from mobile phones. The BeCare Neuro Link app quantitatively measures cognition, motor, sensory, cerebellar, visual and balance functions through the gyrometer and accelerometer which are components of all mobile phones. Through AI interpretation, it compares the user's performance with that of the general population. Armed with this information, patients benefit by seeking treatment earlier, which is essential for a better outcome and decreased long-term disability.

It's specialty app, BeCare MS Link, replicates the evaluation of a MS center, with a disability score calculated by AI. In a recently published study, BeCareLink showed that the disability score it calculated correlates similarly, if not better, with a clinician's calculated score than that of two different clinicians. With its enormous number of quantitative data points, it can reduce the burden of interrater variability that plagues clinical care and clinical trials. BeCareLink puts a premium on patient education to empower them to become partners in their own treatment

Building Tomorrow's Leaders

The healthcare industry is always evolving. However, it is crucial to not evaluate your future success on what is most lucrative or effective currently. It is imperative to find your passion and position yourself to enjoy the work you are doing, says Charisse.

"The greatest success comes from pursuing your passion. And if you are planning to be in healthcare, make sure your passion is about helping others."

Enhancing Access to Neurological Care

BeCareLink is a digital health company designed to deliver remote, quantitative neurologic exams. Today, there is a growing shortage of neurologists. Even now, 75% of neurologic patients are seen by non-neurologists, which translates to delayed diagnosis, inadequate monitoring, and poor patient outcomes. With BeCareLink's solution, patients can be evaluated for most neurologic diseases remotely on their phones.

plan. Further, this collaboration will help the clinicians deliver the most inspired care.

Clinicians benefit by being able to provide better patient care and by having additional CPT-codes to generate revenue. For Pharmaceutical companies, the availability of myriad of data collected on all patients that can be used to direct further drug development is invaluable. Additionally, through its patient base, BeCare Link can recruit more easily for clinical trials and can assess new drugs more effectively, less costly, and more quickly, leading to the expeditious introduction of its new drugs to the market. Investors will see an ROI from all these benefits.

Pandemic Shaping the Healthcare

According to Charisse, the pandemic has already played a big role in shaping the healthcare industry. The increased pressure on the system, and the inequities in care based on socioeconomic class, race, and geography, have all been highlighted dramatically over the last few years. While telemedicine became mainstream during the pandemic, the same access issues remain post-pandemic, though of a lesser magnitude. For this reason, alternatives to in person care, especially through digital health, will play an increasingly greater role.

BeCareLink is based on advanced technology that speeds up processes and boosts efficiency. Its remote nature allows individuals vulnerable to developing Alzheimer’s and those already diagnosed with dementia but without access to adequate care to detect disease earlier and objectively monitor for the decline in cognitive status. It can screen for other neurodegenerative disorders, such as Parkinson’s Disease, multiple sclerosis, and ALS, as well.

With the BeCare MS Link app, patients already diagnosed with MS will have clinical decline detected earlier, prompting clinicians to switch to more effective medications sooner. Ultimately, this will lead to decreased long-term disability.

“We have learned that most neurologic disorders can have better outcomes when treatment is started early. And that can only happen after the correct diagnosis is made. That is where BeCareLink comes in.”

Healthcare Opportunities

The healthcare industry and healthcare delivery permeate every sector of society and even life decisions.
Imagine a scenario where a person who supplies health insurance for his family reaches Medicare age but cannot retire because it would leave the family uninsured. Further, everyday people who cannot get health insurance crowd the emergency rooms with routine medical issues, not because they are lazy but because they have no better alternatives. Meanwhile, the stroke victim in the waiting room cannot get the clot-buster to save himself because another person is occupying the bed with a four-week-old cough.

The tragedy of all of this is that the therapies are quickly advancing but society will not be able to deliver them adequately. There have been at least four new Alzheimer’s Drugs that have entered the market that can delay or prevent the illness. But the cost of these drugs is so high that it will require every penny of the budget to pay for them, leaving no money to treat other illnesses.

On the other hand, if people developing Alzheimer’s are not receiving the drugs that will mitigate their decline, the cost of caregivers will eclipse the system. In such cases, BeCareLink can help the patients by detecting changes early and monitoring for decline and also by helping new drugs come to market less costly and quicker.

Patient-Centric Future

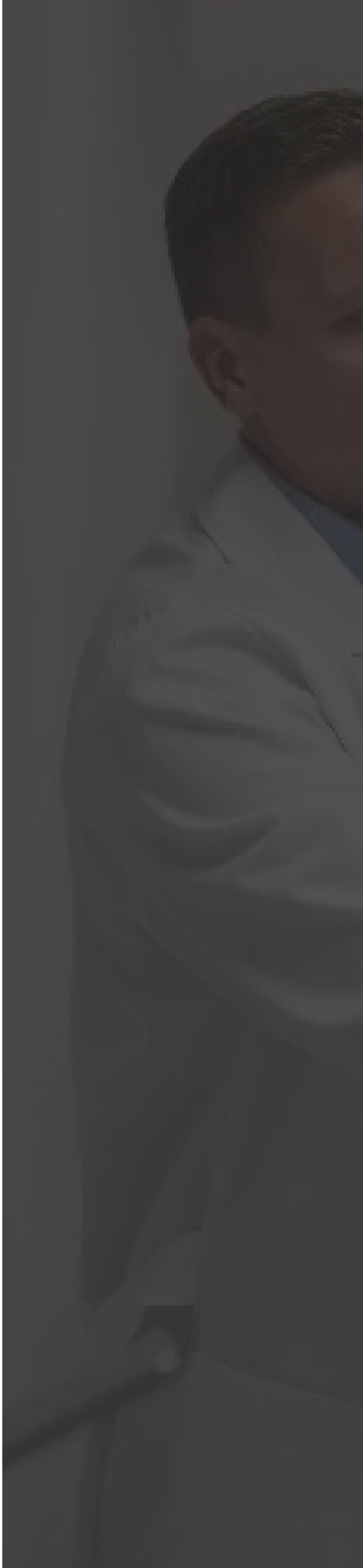
It saddens Charisse when she contemplates the divisions that COVID-19 created in the United States.

The country is home to heroic physicians, nurses, and emergency personnel who risk their lives time and time again. Similarly, the country has pharma companies’ advanced therapies that have saved countless patients globally. Overall, the response by the healthcare systems was more than admirable, and the healthcare industry needs to build on that success with new technologies and with digital health, says Charisse.

It inspires Charisse when she sees the great minds of researchers and industry leaders who are producing novel therapies at an unprecedented rate. However, she is leery of the forceful absorption of practitioners into hospital systems and the purchase of large physician groups by hedge funds.

In the future, Charisse believes that the healthcare industry will become more patient-focused. The first step in that direction will be to honor and respect the front-line practitioners who deliver the care. She is hopeful that a new generation of competent physicians will be able to take back the charge of the healthcare industry.

“We need to hone our ability to assess and treat patients remotely during the future pandemics that will inevitably come. And that will require proven, remote diagnostic and monitoring tools like BeCareLink.”

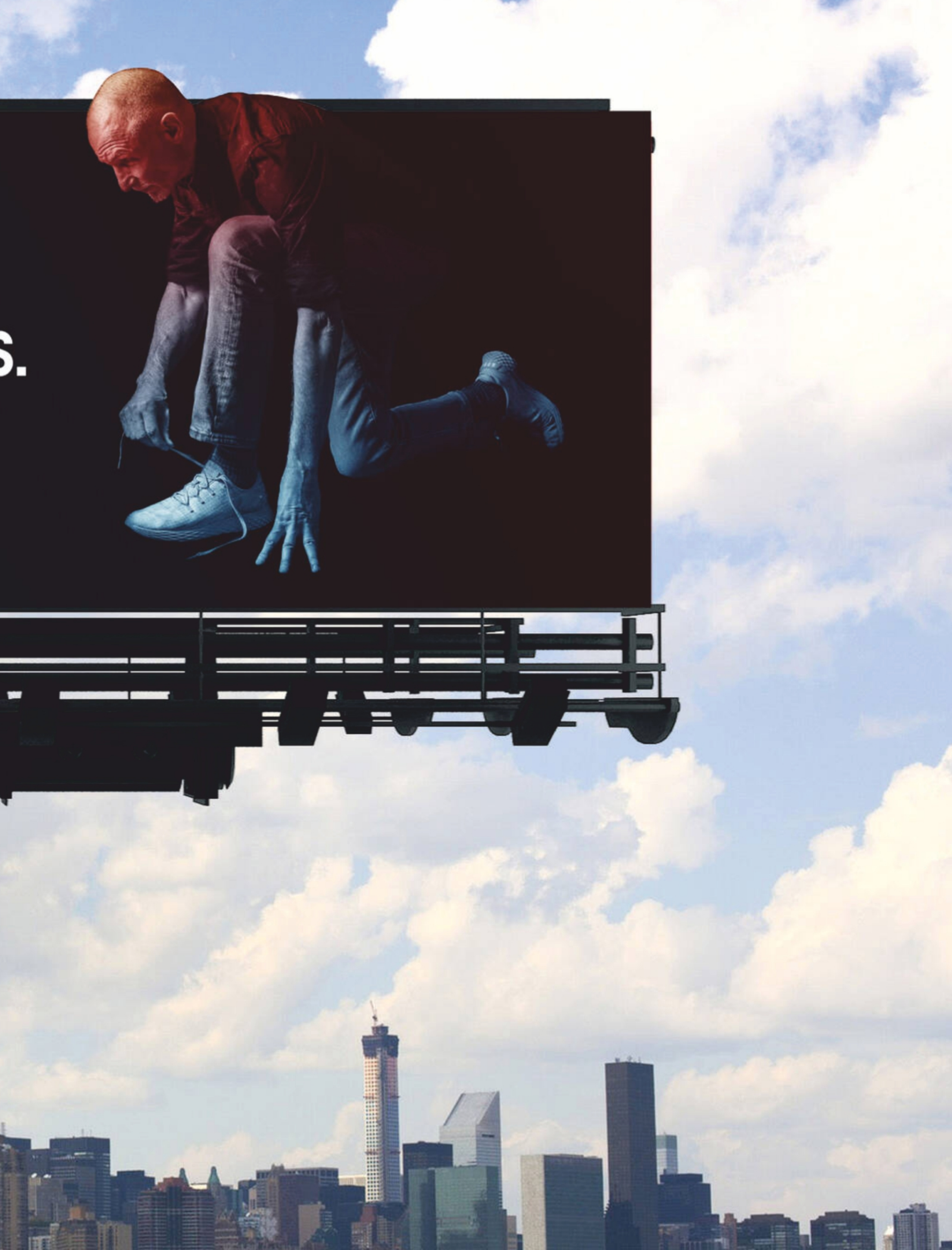


BeCareLink

Innovation and Research Leading the Way

- **Gene-sequencing:** The underpinning of many advances, including targeted therapy.
- **Precision medicine:** A potential game changer led by the growing understanding of the causes of the current incurable diseases to halt, manage, and prevent them. Ex: Certain cancers, Alzheimer's disease, and Parkinson's disease
- **Current Drugs:** There are drugs on the market that "wash" the brain of the proteins responsible for causing Alzheimer's Disease
- **Advanced imaging:** The prediction of diseases such as Alzheimer's can occur before they are evident, enabling earlier intervention.
- **Anti-Migraine Therapies:** There are multiple new available therapies to block debilitating migraines.
- **Gene Prediction:** By identifying some of the genes predicting the risk of developing breast cancer, we can give women the choice to pursue surgery to protect their futures.

ICY HOT PRO
PAIN RELIEF CREAM
Pain relief isn't just for pros
MetLife


S.

DOCTOR
ONLINE

THE ROLE OF TELEMEDICINE IN STROKE CARE: IMPROVING TIME-SENSITIVE TREATMENTS

Introduction

Stroke, a leading cause of death and disability worldwide, demands rapid and specialized medical attention. Timely diagnosis and treatment are crucial for minimizing brain damage and maximizing recovery potential. However, geographical limitations and resource disparities often hinder access to stroke expertise, particularly in rural areas. This is where telemedicine emerges as a game-changer, revolutionizing stroke care by bridging geographical gaps and enhancing access to critical interventions.

Understanding Stroke and its Time-Sensitivity

A stroke occurs when blood flow to part of the brain is interrupted, depriving brain cells of oxygen and nutrients. This can be caused by a clot blocking an artery (ischemic stroke) or bleeding in the brain (hemorrhagic stroke). Every minute brain cells deprived of oxygen die, leading to permanent damage and functional limitations.

The Golden Hour in Stroke Care:

The first hour after a stroke is often referred to as the "golden hour." Administering certain medications, like thrombolytic drugs, within this timeframe significantly improves the chances of a full recovery. Delays in treatment can drastically reduce the effectiveness of these interventions and worsen long-term outcomes.

Challenges in Traditional Stroke Care:

Limited access to stroke specialists: Stroke expertise is often concentrated in specialized centers, leaving patients in remote areas with limited access to timely diagnosis and treatment.

Transportation delays: Transferring patients to specialized centers can be time-consuming, especially in geographically dispersed areas, further delaying treatment initiation.

Resource constraints: Smaller hospitals might lack the necessary infrastructure and specialist teams for comprehensive stroke care.

Benefits of Telemedicine in Stroke Care:

- **Improved access to specialists:** Telemedicine eliminates geographical barriers, allowing patients in remote areas to receive consultations with stroke specialists, regardless of their location.
- **Faster diagnosis and treatment:** Real-time consultations enable quicker evaluation and treatment decisions, potentially reducing the time to initiate critical interventions within the golden hour.
- **Enhanced decision-making:** Specialists can remotely assess patients, review scans, and collaborate with local healthcare providers, leading to more informed treatment decisions.
- **Optimized resource utilization:** Telemedicine allows specialists to extend their expertise to multiple locations, optimizing the utilization of limited resources and expertise.
- **Improved patient outcomes:** Studies have shown that telemedicine can lead to faster treatment initiation, improved access to specialized care, and potentially better patient outcomes.

How Telemedicine Bridges the Gap

Telemedicine utilizes technology to deliver healthcare services remotely. In stroke care, it allows neurologists and other specialists to connect with patients and healthcare providers at remote locations via real-time video conferencing. This empowers faster evaluation, diagnosis, and treatment decision-making, potentially saving crucial time and improving patient outcomes.

Telemedicine in Action: Different Applications

- **Telestroke consultations:** Neurologists can remotely assess patients through video conferencing, review scans, and guide local healthcare providers in diagnosis, treatment decisions, and thrombolysis administration.
- **Remote stroke education and training:** Telemedicine facilitates remote training and education for healthcare professionals in remote areas, enhancing their preparedness to handle stroke cases.
- **Tele-rehabilitation:** Patients can receive rehabilitation therapy from specialists remotely through video conferencing, improving access to crucial post-stroke rehabilitation services.

Addressing Challenges and Ensuring Success

- While telemedicine holds immense potential, it's important to acknowledge and address potential challenges:
- **Technology infrastructure:** Reliable and accessible technology infrastructure is crucial for successful telemedicine implementation.
- **Network connectivity:** Strong and stable internet connectivity is essential for seamless video conferencing and real-time data transmission.
- **Reimbursement and cost considerations:** Establishing clear reimbursement models for telemedicine services is necessary to ensure its long-term sustainability.
- **Data privacy and security:** Robust data security measures are required to ensure patient privacy and confidentiality when using telemedicine platforms.

The Future of Telemedicine in Stroke Care

Advancements in technology, including artificial intelligence integration and the development of user-friendly interfaces, hold immense promise for further enhancing telemedicine's role in stroke care. Additionally, ongoing research and development in areas like remote neurological assessment tools and telerehabilitation programs can further streamline stroke care delivery.

When antihistamines flop, the itch doesn't stop.
Ditch THE Itch
zoetis

Revolutionizing Healthcare:

Exploring the Global Digital Transformation Landscape

Digital transformation in healthcare refers to the integration and adoption of digital technologies to enhance the quality of healthcare services, improve patient outcomes, and streamline healthcare processes. This transformation involves the use of various technologies, including telehealth, electronic health records (EHR), mobile health (mHealth), artificial intelligence (AI), and other digital solutions. Remote healthcare services, virtual consultations, and telemonitoring. Enables patients to access medical care from a distance, improving accessibility and reducing the need for in-person visits.

Table Of **Contents**

- Market Introduction
- Research Methodology
- Market Dynamics
- Market Factor Analysis
- Global Digital Transformation In Healthcare Market, By Solution
- Global Digital Transformation In Healthcare Market, By Organization Size
- Global Digital Transformation In Healthcare Market, By Technology
- Global Digital Transformation In Healthcare Market, By End-Use
- Global Digital Transformation In Healthcare Market, By Region
- Competitive Landscape
- Company Profiles
- Key Developments
- SWOT Analysis

Global Digital Transformation in the Healthcare Market: Covid-19 Impact

The need for social distancing and reducing the risk of virus transmission led to a surge in telehealth and telemedicine services. Telehealth allows healthcare providers to conduct virtual consultations, monitor patients remotely, and deliver care without physical contact. The pandemic highlighted the importance of remote patient monitoring technologies, enabling healthcare providers to keep track of patients' vital signs and health metrics from a distance.

Wearable devices and IoT technologies have become essential for monitoring COVID-19 patients and those with chronic conditions. Digital tools played a crucial role in tracking and managing the spread of the virus.

Global Digital Transformation in the Healthcare Market

Growth Drivers

- Technological Advancements
- Increased Healthcare Data Availability
- Consumer Demand for Digital Health Service

Restraining Factors

- Security Concerns
- Regulatory Compliance
- Interoperability Issues

Opportunity Factors

- Improved Patient Care and Outcomes
- Telemedicine and Remote Patient Monitoring
- Efficiency and Cost Savings

Key Market Players

- **Microsoft Corporation**
- **IBM Corporation**
- **SAP SE**
- **Dell EMC**
- **Accenture PLC**
- **Cognizant Technology Solutions**
- **CA Technologies**
- **Adobe Systems**
- **Hewlett Packard Enterprise**

Regional Insights

NORTH AMERICA

The United States and Canada have been at the forefront of adopting digital health technologies. The push for electronic health records (EHRs) and the implementation of telemedicine solutions have gained traction. However, the complexity of the healthcare system and diverse regulatory landscapes can present challenges.

EUROPE

European countries have made strides in digital healthcare adoption, with a focus on interoperability and data exchange between member states. The European Union's General Data Protection Regulation (GDPR) influences how health data is managed. Countries like Germany and the United Kingdom have been actively investing in digital health infrastructure.

ASIA PACIFIC

The Asia-Pacific region is experiencing rapid digital transformation in healthcare, driven by technological advancements and the increasing demand for healthcare services. Countries like China, India, and Japan are investing heavily in digital health initiatives, including telehealth, health information exchange, and electronic medical records.

FAQ

What are the key factors driving the Global Digital Transformation in the Healthcare Market?

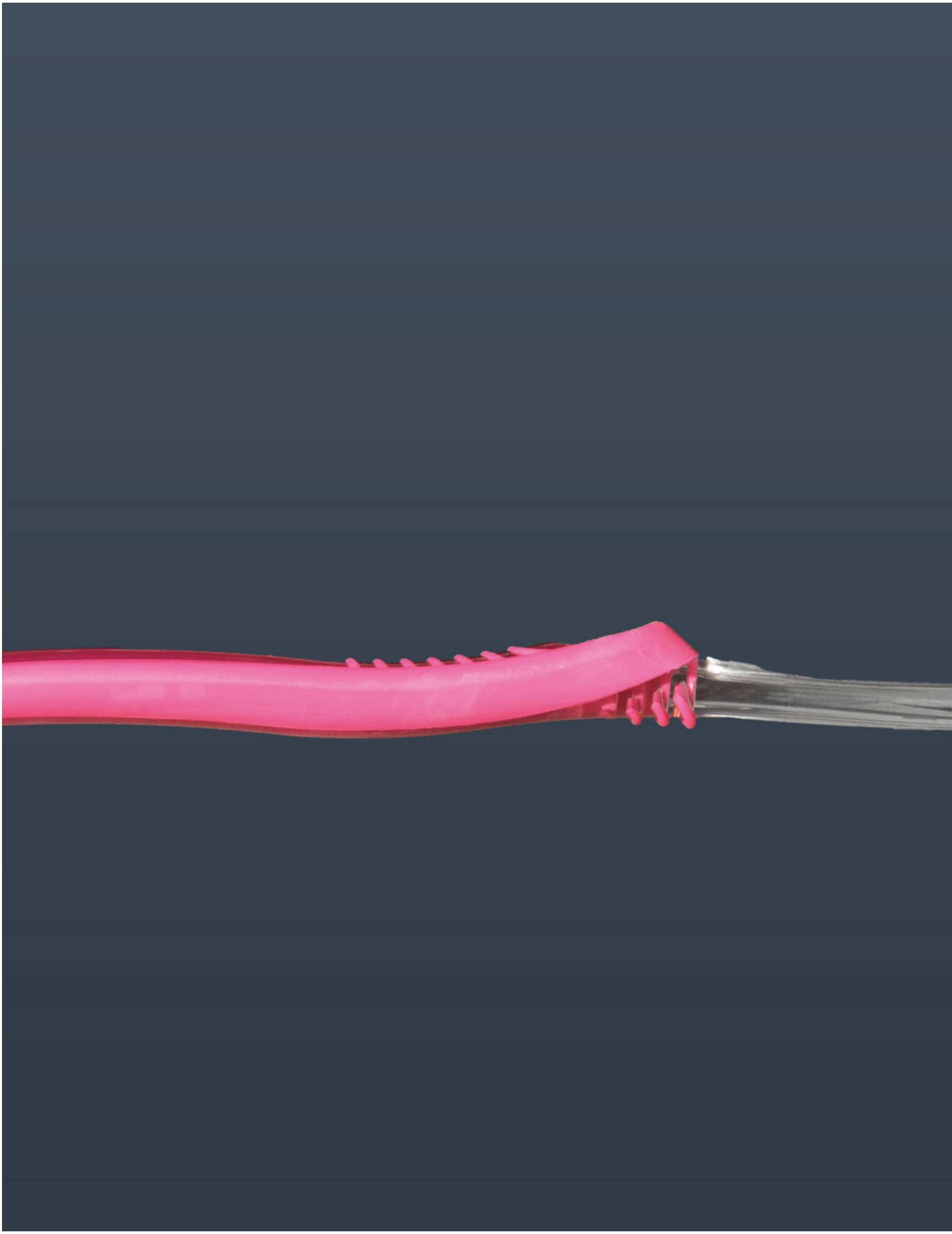
The institutional drive for lower costs and better patient involvement will accelerate the digital transformation of healthcare market. In the upcoming years, it is anticipated that there would be a rise in pharmaceutical investment, regulatory tightening, payer involvement in digital technologies, and improved telemedicine connectivity through consolidation

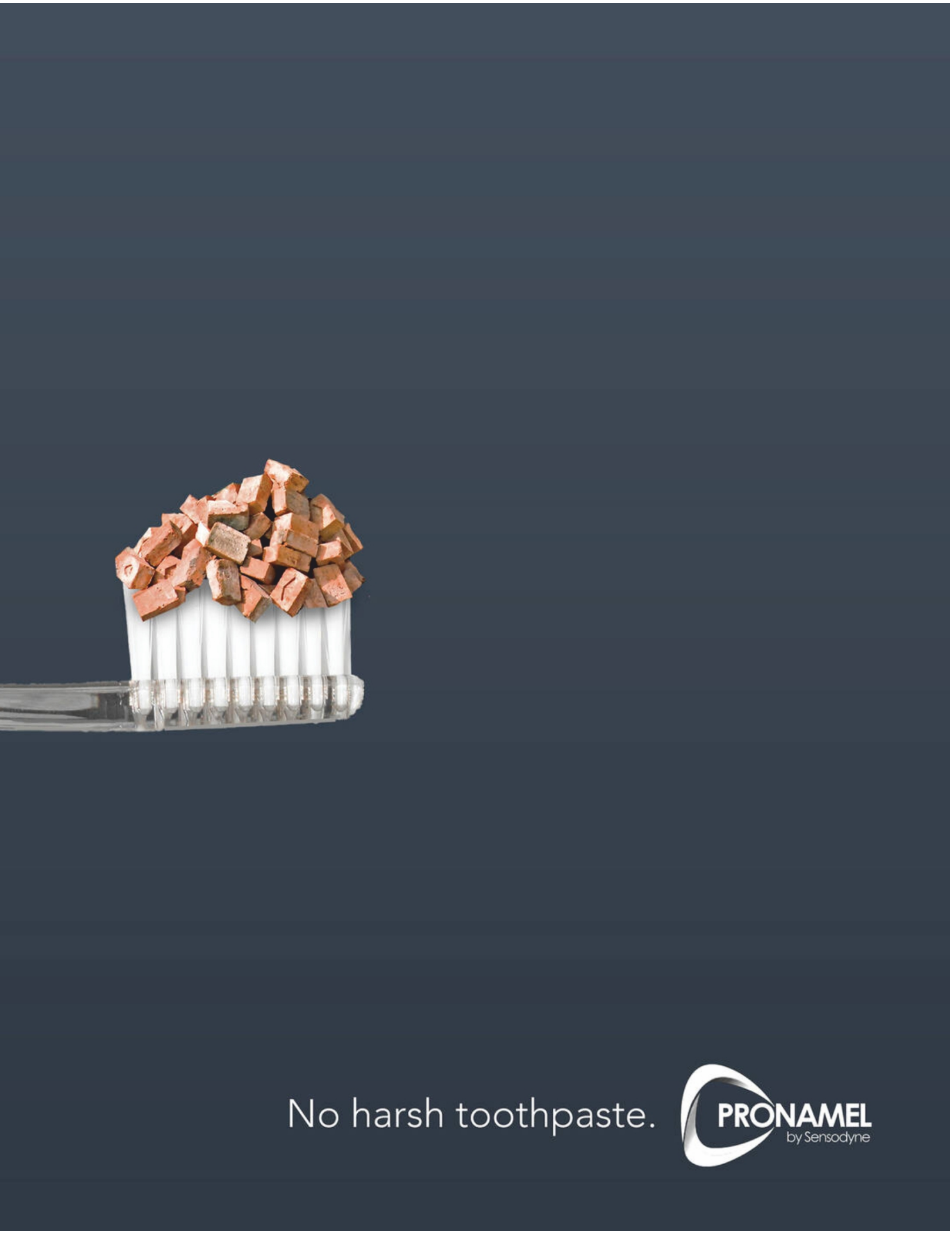
Which region will contribute ably towards the Global Digital Transformation in the Healthcare Market?

The North America region has captured largest of the revenue share in 2023.

What are the key players in Global Digital Transformation in the Healthcare Market?

Fitbit, HealthVault, Apple, Osso VR, SentiAR, Xealth, . and others are the key players in Global Digital Transformation in the Healthcare Market.





No harsh toothpaste.
PRONAMEL
by Sensodyne

BREAKING DOWN BARRIERS:

LOCAL TOMOGRAM
100%

HOW TELE NEUROLOGY ENHANCES ACCESSIBILITY TO NEUROLOGICAL CARE

In today's fast-paced world, access to quality healthcare remains a significant challenge for many individuals, particularly those living in remote or underserved areas. However, the advent of telemedicine, specifically tele neurology, has revolutionized the way neurological care is delivered, breaking down barriers and enhancing accessibility like never before.

Introduction to Tele Neurology

Tele neurology is a branch of telemedicine that utilizes telecommunication technologies to provide neurological consultations, evaluations, and follow-up care remotely. This innovative approach leverages video conferencing, remote monitoring devices, and secure data transmission to facilitate real-time interactions between neurologists and patients, regardless of their physical locations

Addressing Geographic Disparities

One of the most significant advantages of tele neurology is its ability to address geographic disparities in accessing specialized neurological care. Many regions around the world face a shortage of neurologists, particularly in rural and remote areas. Patients in these areas often have to travel long distances, endure lengthy wait times, or forgo treatment altogether due to the lack of nearby specialists.

Tele neurology bridges this gap by connecting patients with highly skilled neurologists, transcending physical boundaries. Through secure video conferencing platforms, patients can undergo comprehensive neurological evaluations, receive diagnoses, and discuss treatment plans without the need for lengthy travel. This not only saves time and reduces the financial burden associated with travel expenses, but it also ensures timely access to expert care, which can be crucial in managing time-sensitive neurological conditions.

The impact of tele neurology on addressing geographic disparities can be visualized through the following infographic:

GEOGRAPHIC REACH OF TELE NEUROLOGY

URBAN CENTERS WITH NEUROLOGICAL SPECIALISTS

VIDEO CONFERENCING

RURAL AND REMOTE AREAS WITH LIMITED ACCESS TO NEUROLOGY

This infographic illustrates how tele neurology bridges the gap between urban centers with neurological specialists and rural and remote areas with limited access to neurology. Through secure video conferencing platforms, neurologists in urban centers can remotely evaluate, diagnose, and treat patients in underserved regions, effectively expanding the geographic reach of specialized neurological care.

Furthermore, tele neurology can significantly reduce the burden of travel for patients in remote areas. Consider the following statistics:

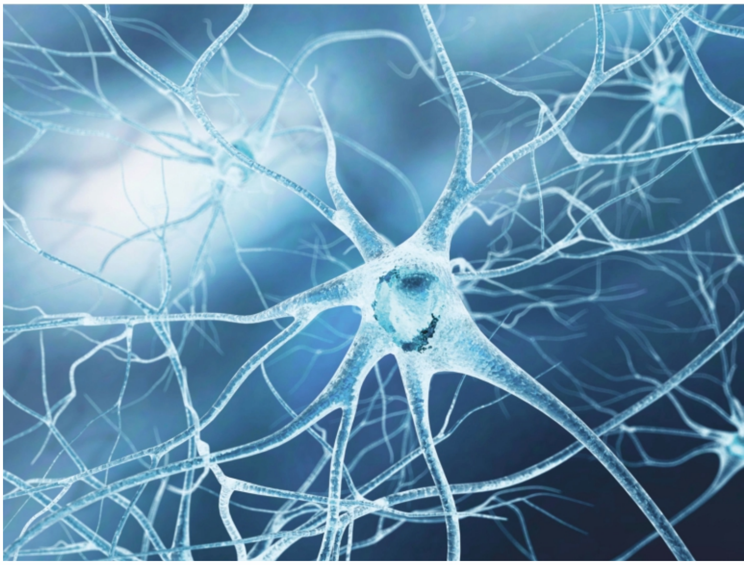
- **In the United States, approximately 25% of the population lives in rural areas, but only 10% of neurologists practice in these regions.**
- **In some rural areas, patients may have to travel over 200 miles to access a neurological specialist.**
- **The average travel cost for a rural patient seeking neurological care can exceed $1,000, including transportation, accommodation, and lost wages.**

By eliminating the need for lengthy travel, tele neurology not only saves time but also reduces the financial strain on patients and their families, making specialized neurological care more accessible and affordable.

Enhancing Access for Underserved Communities

Tele neurology also plays a pivotal role in enhancing access to neurological care for underserved communities. These communities may face socioeconomic barriers, language barriers, or cultural barriers that limit their ability to access traditional healthcare services. By leveraging tele neurology, healthcare providers can reach these populations more effectively, addressing their unique needs and breaking down barriers to care.

Through tele neurology, patients can receive consultations and follow-up care in their preferred language, with the assistance of interpreters if necessary. Additionally, cultural sensitivity can be better addressed, as neurologists can gain insights into patients' backgrounds and tailor their approach accordingly. This personalized care can improve patient understanding, compliance, and overall treatment outcomes.



Continuity of Care and Remote Monitoring

Tele neurology not only facilitates initial consultations but also supports ongoing monitoring and follow-up care. Patients with chronic neurological conditions, such as epilepsy, Parkinson's disease, or multiple sclerosis, often require regular check-ups and adjustments to their treatment plans. Tele neurology enables neurologists to remotely monitor patients' conditions, track symptom progression, and make necessary modifications to their treatment regimens without the need for frequent in-person visits.

This continuity of care is particularly valuable for patients who face mobility challenges or live in areas with limited access to transportation. By reducing the need for frequent travel, tele neurology enhances adherence to treatment plans and improves overall patient outcomes.

Collaborative Care and Multidisciplinary Approach

Tele neurology also facilitates collaboration among healthcare professionals, enabling a multidisciplinary approach to patient care. Through secure video conferencing platforms, neurologists can consult with other specialists, such as physical therapists, speech therapists, or psychologists, to develop comprehensive treatment plans tailored to each patient's unique needs.

This collaborative approach ensures that patients receive holistic care, addressing not only their neurological conditions but also any associated physical, cognitive, or psychological challenges. By breaking down silos and fostering interdisciplinary communication, tele neurology enhances the quality and effectiveness of neurological care.

Tele-neurology empowers collaborative care by:

- **Connecting neurologists:** Secure video conferencing allows specialists to consult seamlessly, regardless of location.
- **Building multidisciplinary teams:** Neurologists can collaborate with physical therapists, speech therapists, and psychologists for holistic care.
- **Tailoring treatment plans:** Shared expertise leads to personalized plans addressing individual needs beyond just the neurological condition.
- **Breaking down silos:** Communication barriers are minimized, facilitating a unified approach to patient care.

Educating and Empowering Patients

Tele neurology not only provides access to expert care but also serves as a powerful tool for patient education and empowerment. During virtual consultations, neurologists can share educational resources, such as videos, diagrams, or interactive presentations, to help patients better understand their conditions, treatment options, and self-management strategies.

By actively involving patients in their care and providing them with the necessary knowledge, tele neurology promotes patient engagement and encourages them to take an active role in managing their health. This empowerment can lead to improved treatment adherence, better self-care practices, and ultimately, better health outcomes.

Challenges and Considerations

While tele neurology offers numerous benefits, it is important to acknowledge and address certain challenges and considerations. These include ensuring the privacy and security of patient data, addressing potential technology barriers for some patients, and maintaining appropriate standards of care through rigorous training and guidelines for healthcare providers.

Furthermore, tele neurology should be viewed as a complementary approach to traditional in-person care, rather than a complete replacement. Some neurological conditions or procedures may still require in-person evaluations or interventions, and a balanced approach that integrates both tele neurology and in-person care is essential.

Conclusion

Tele neurology represents a transformative shift in the delivery of neurological care, breaking down barriers and enhancing accessibility like never before. By leveraging telecommunication technologies, tele neurology enables patients in remote or underserved areas to access expert neurological care, facilitates continuity of care and remote monitoring, and promotes collaborative and multidisciplinary approaches.

As technology continues to advance and healthcare systems adapt to the changing landscape, tele neurology will undoubtedly play an increasingly significant role in improving access to quality neurological care, empowering patients, and fostering better health outcomes for individuals worldwide.

Bringing worlds together.

From the ends of
earth to save a life.

Ezer Mizion is the world's largest Bone Marrow Registry.
To date, 4,521 lives have been saved. You can save another.

EZER
MIZION

GLOBAL EVENTS IN NEUROLOGY

Explore the latest advancements in neurology at the 2024 conferences, where professionals, researchers, and students gather to delve into various topics and controversies. Engage with experts, expand your understanding, and seize research opportunities in areas like pediatrics, sports, and stem cells. Gain practical knowledge and connections to enhance patient care in a stimulating environment.

International Conference On Sports Neurology And Neurological Conditions

19 Mar 2024
Tokyo, Japan

Organizer Details

Contact Person: Sukumar Sen

Organized By: Research Plus

Event Enquiries: info@researchplus.co

Deadline for Registration: 09-Mar-2024

International Conference On Treatments And Surgery In Neurology

20 Mar 2024
Singapore, Singapore

Organizer Details

Contact Person: Thomas

Organized By: IITER

Event Enquiries: info@iiter.org

Deadline for Registration: 10-Mar-2024

International Conference On Pediatric Neurology And Neuropathology

22 Mar 2024
Geneva, Switzerland

Organizer Details

Contact Person: Akash Shinde

Organized By: Science Cite

Event Enquiries: team@sciencecite.com

Deadline for Registration: 12-Mar-2024

International Conference On Stem Cells In Neurology

25 Mar 2024
Petaling Jaya, Malaysia

Organizer Details

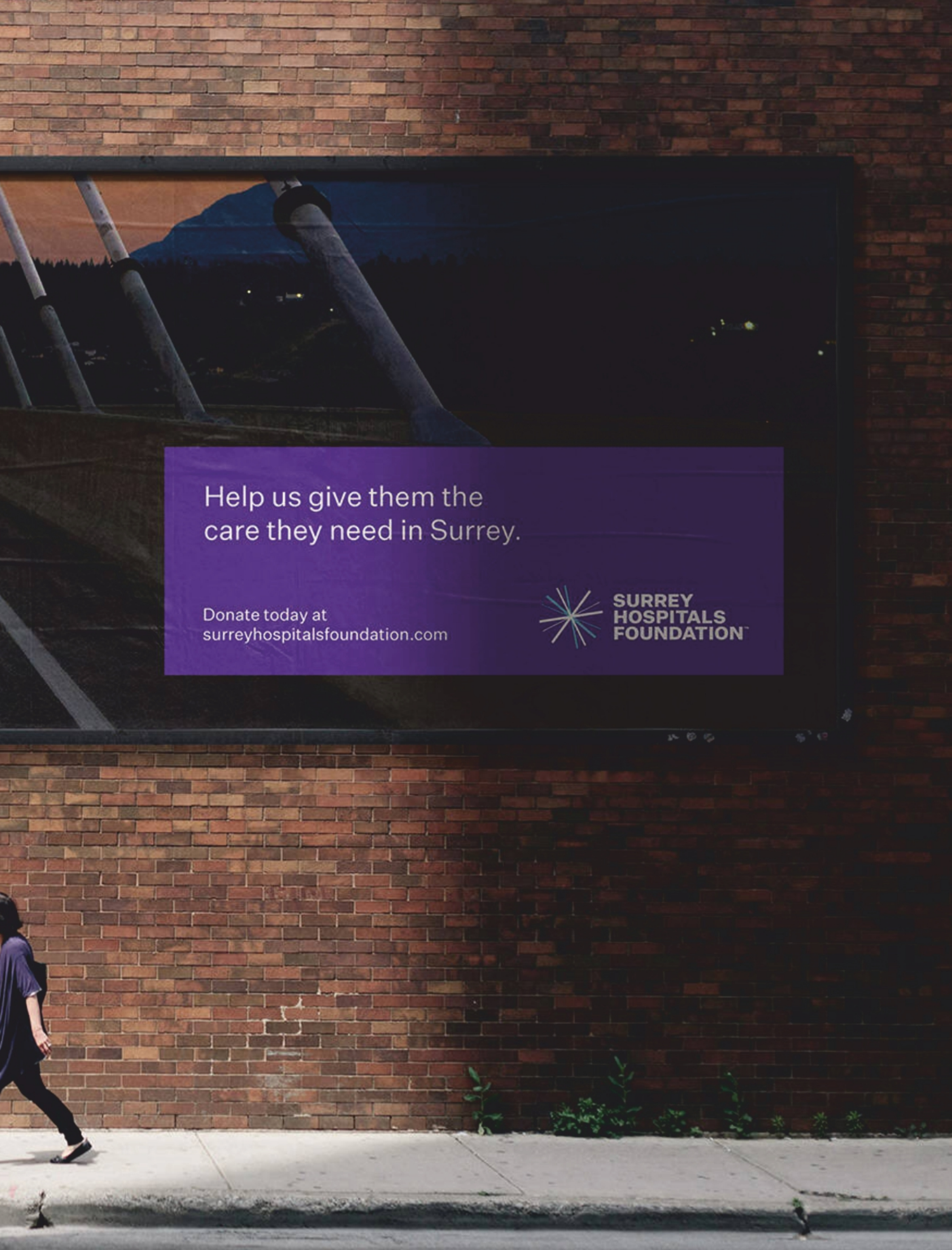
Contact Person: Jeff Jones

Organized By: IARF

Event Enquiries: info@iarfconference.com

Deadline for Registration: 15-Mar-2024

AMBULANCE
EVERY DAY, PATIENTS LEAVE SURREY FOR MEDICAL CARE.


Help us give them the care they need in Surrey.
Donate today at surreyhospitalsfoundation.com
SURREY HOSPITALS FOUNDATION™

NEWS OF THE WEE

Study Suggests Safety of MS Drugs During Breastfeeding (First 3 Years)

No significant differences were found in terms of:

- Hospital stays
- Antibiotic use
- Developmental delays
- Speech development
- Weight

Key Points:

- A preliminary study suggests certain MS drugs (monoclonal antibodies) might be safe during breastfeeding for the first 3 years of a child's life.
- The study will be presented at the American Academy of Neurology's annual meeting in April 2024.
- Researchers compared the health and development of infants exposed to these drugs through breastfeeding to those who weren't.

Important Note:

More research is needed, as only about a third of the infants were followed for the full 3 years.

Additional Information:

- MS (Multiple Sclerosis): An autoimmune disease affecting the nervous system.
- Monoclonal antibodies: A type of medication used to treat various conditions, including MS.
- Neuromyelitis optica spectrum disease (NMOSD): A rare autoimmune disease affecting the central nervous system.
- American Academy of Neurology (AAN): A professional organization for neurologists.

Posttraumatic Epilepsy Linked to Increased Dementia Risk

Key Points:

- Study suggests higher dementia risk in individuals with posttraumatic epilepsy (PTE) compared to those with head injury or epilepsy alone.
- PTE is a type of epilepsy that develops after a head injury.
- The study followed individuals for up to 30 years.
- Dementia risk was 4.5 times higher in the PTE group compared to the group without epilepsy or head injury.
- Risk was 3 times higher even after accounting for stroke and mortality.
- Younger individuals with PTE had an even greater dementia risk.

Additional Information:

- This was a large, long-term study, but further research is needed to confirm the findings.
- The study did not account for certain factors like physical functioning, which might influence the results.
- More research is needed to understand the mechanisms behind the link between PTE and dementia.

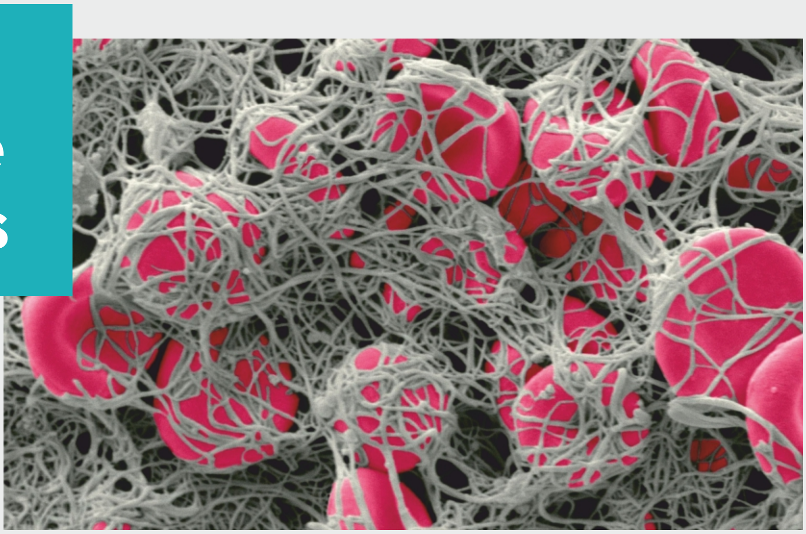
Pedaling Together: Tandem Cycling Enhances Well-being for Parkinson's Patients and Caregivers

A preliminary study presented at the American Academy of Neurology's Annual Meeting suggests that tandem cycling on stationary bikes benefits both Parkinson's patients and their caregivers. Conducted over eight weeks with nine patient-caregiver pairs, the program utilized virtual reality platforms and monitored improvements in physical and emotional well-being. While Parkinson's patients showed enhanced mobility and decreased disease severity scores, caregivers demonstrated improved resilience and reduced depression levels. The study underscores the importance of holistic care approaches for both patients and caregivers in managing Parkinson's disease. Sponsored by the Prisma Health-Upstate Office of Philanthropy and Partnership.

Key Points:

- Tandem cycling on stationary bikes benefits both Parkinson's patients and their caregivers.
- The program utilized virtual reality platforms and monitored improvements in physical and emotional well-being.
- Parkinson's patients showed enhanced mobility and decreased disease severity scores.
- Caregivers demonstrated improved resilience and reduced depression levels.
- The study highlights the importance of holistic care approaches in managing Parkinson's disease.

Social Factors May Affect Stroke Treatment Access



Key Points:

- Study suggests social factors like education, neighborhood, and employment might influence access to stroke treatment.
- The study focused on clot-busting drugs for ischemic stroke (most common type).
- People with lower social disadvantage were more likely to receive the treatment.
- Black and Hispanic individuals, uninsured individuals, and those in rural areas were less likely to receive the treatment.

Additional Information:

- The study is preliminary and further research is needed.
- It is important to reach the hospital within a few hours of stroke symptoms for clot-busting drug eligibility (not measured in this study).

EVERYONE'S
BONES
tell a STORY
PROTECT IT WITH XGEVA

With XGEVA
protecting
his bones,
Pete
can focus
on restoring
a classic.

XGEVA®
(denosumab) injection
120 mg/1.7 mL vial

THE LIFESCIENCES MAGAZINE